Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

P314 – 315 – The Impact of Fertilizer

**Complete the table** by filling in the missing items

|  |  |  |
| --- | --- | --- |
| **Term** | **Definition** | **Example** |
|  | any substance, such as manure or a mixture of nitrates, added to soil or water to increase its productivity |  |
| Macronutrient |  |  |
|  |  | Boron, Zinc, Manganese |
| Inorganic |  |  |

**Answer the following questions:**

1. Why are fertilizers valuable to farmers?
2. What is the relationship between fertilizers and fossil fuels?
3. How might the absence of humus negatively affect plants?
4. What problems are caused by fertilizer use?

**Use figure 14.5 to answer the following questions:**

1. Which countries used the most fertilizer in 1959-1960?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Which countries used the least fertilizer in 1959-1960? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Which countries used the most fertilizer in 1989-1990? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Which countries used the least fertilizer in 1989-1990? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Which countries are projected to use the most fertilizer in 2020? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Which countries are projected to use the least fertilizer in 2020? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Which countries have experienced the greatest change in the amount of fertilizers used from 1959 to 2020? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Which countries have experienced the smallest change in the amount of fertilizers used from 1959 to 2020? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Look at your answer to number 8. Why do you think these countries might have experience the least amount of change in their use of fertilizers?
10. Look at your answer to number 7. What factors do you think may have caused these countries to use so much more fertilizer now compared to decades past?